

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A method for tracing an instrumented application, comprising:
loading the instrumented application comprising a probe into a kernel level to obtain a corresponding instrumented process;
triggering, after loading the instrumented application, a hook in an initialization file associated with the instrumented application to load a helper action into a kernel level for use by a tracing framework, wherein the helper action is a stored procedure generated using an implementation specific detail associated with the instrumented application for obtaining a stack trace of the instrumented process, and wherein the helper action is linked to the initialization file;
registering ~~[[a]] the~~ helper action with ~~[[a]] the~~ tracing framework, ~~wherein the helper action is for obtaining a stack trace of the instrumented process;~~
tracing the instrumented process using the tracing framework, wherein tracing comprises triggering ~~[[a]] the~~ probe in the instrumented process;
determining, after triggering the probe, whether the helper action is associated with the probe based on the registration of the helper action with the tracing framework;
~~[[and]]~~
obtaining the helper action when the helper action is associated with the probe; and
performing the helper action to obtain the stack trace of the instrumented process when the helper action is associated with the probe.
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)

5. (Currently Amended) The method of claim [[4]]~~1~~, wherein the helper action is stored in a process helper data structure.
6. (Original) The method of claim 5, wherein the process helper data structure is associated with the instrumented process.
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Currently Amended) A computer system, comprising:

a processor configured to:

~~execute an instrumented process corresponding to an instrumented application comprising a probe, wherein the probe is associated with an action;~~
~~execute a helper action associated with the instrumented application; and~~
~~execute a tracing framework configured to trace the instrumented process and to perform the helper action to obtain a stack trace for the instrumented process when the action is associated with the helper action, and~~
load an instrumented application comprising a probe associated with an action into a kernel level to obtain a corresponding instrumented process;
load, in response to triggering a hook in an initialization file associated with the instrumented application, a helper action into the kernel level for use by a tracing framework, wherein the helper action is a stored procedure generated using an implementation specific detail associated with the instrumented

application for obtaining a stack trace of the instrumented process, and
wherein the helper action is linked to the initialization file;
register the helper action with the tracing framework;
execute the tracing framework, wherein the tracing framework is configured to:
trace the instrumented process, wherein tracing comprises triggering the
probe in the instrumented process;
determine, in response to the triggering, whether the helper action is
associated with the probe based on the registration of the helper action
with the tracing framework;
obtain the helper action when the helper action is associated with the probe;
and
perform the helper action to obtain the stack trace of the instrumented process
when the helper action is associated with the probe, and
a storage device configured to store the stack trace of the instrumented process.

14. (Cancelled)

15. (Original) The system of claim 13, wherein the implementation specific details comprise at least one selected from the group consisting of an instrumented application data structure and an instrumented application algorithm.

16. (Original) The system of claim 15, wherein the instrumented application data structure comprises an application stack.

17. (Original) The system of claim 16, wherein the application stack comprises at least one selected from the group consisting of an interpreter stack and a virtual machine stack.

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Original) The system of claim 13, wherein the helper action is stored in a process helper data structure.

22. (Original) The system of claim 21, wherein the process helper data structure is associated with instrumented process.

23. (Currently Amended) A network system having a plurality of nodes, comprising:

a processor configured to:

~~execute an instrumented process corresponding to an instrumented application comprising a probe, wherein the probe is associated with an action;~~

~~execute a helper action associated with the instrumented application; and~~

~~execute a tracing framework configured to trace the instrumented process and to perform the helper action to obtain a stack trace for the instrumented process when the action is associated with the helper action, and~~

load an instrumented application comprising a probe associated with an action into a kernel level to obtain a corresponding instrumented process;

load, in response to triggering a hook in an initialization file associated with the instrumented application, a helper action into a kernel level for use by a tracing framework, wherein the helper action is a stored procedure generated using an implementation specific detail associated with the instrumented application for obtaining a stack trace of the instrumented process, and wherein the helper action is linked to the initialization file;

register the helper action with the tracing framework;

execute the tracing framework, wherein the tracing framework is configured to:

trace the instrumented process, wherein tracing comprises triggering the probe in the instrumented process;

determine, in response to the triggering, whether the helper action is associated with the probe based on the registration of the helper action with the tracing framework when the probe is triggered in the instrumented process;

- obtain the helper action when the helper action is associated with the probe;
and
perform the helper action to obtain the stack trace of the instrumented process
when the helper action is associated with the probe, and
a storage device configured to store the stack trace of the instrumented process,
wherein the instrumented application executes on any one of the plurality of nodes, wherein
the helper action is located on any one of the plurality of nodes, and wherein the
tracing framework executes on any one of the plurality of nodes.
24. (New) The method of claim 1, wherein the implementation specific detail comprises at least one selected from the group consisting of an instrumented application data structure and an instrumented application algorithm.
25. (New) The method of claim 24, wherein the instrumented application data structure comprises an application stack.